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## Two New Species of the Genus *Loxocera* MEIGEN (Diptera, Psilidae) from China and Sri Lanka<sup>1),2)</sup>

Mitsuhiro IWASA

Laboratory of Entomology, Obihiro University of Agriculture and  
Veterinary Medicine, Obihiro, Hokkaido 080, Japan

**Abstract** Two new species of the genus *Loxocera* MEIGEN, *L. chinensis* and *L. insolita*, are described from China and Sri Lanka, respectively.

**Key words:** Diptera; Psilidae; *Loxocera*; new species; China; Sri Lanka.

### Introduction

The genus *Loxocera* of the Psilidae is distributed in the Holarctic, Oriental and Afrotropical Regions. The Palaearctic species have been studied by HENNIG (1941), SOÓS (1984), SHATALKIN (1983, 1989) and IWASA (1992) and now comprise 14 species. The Oriental species have been reported from Taiwan, Philippines, Indonesia, Burma and Nepal (HENDEL, 1913; MEIJERE, 1914, 1916; FREY, 1928, 1955; HENNIG, 1940; COGAN, 1977; IWASA, 1993), and 10 species are known to occur in the region. However, little is known of the *Loxocera* from China and the Southwest Asia.

Recently, I obtained a large species belonging to the genus *Loxocera* collected from Yunnan, China by the courtesy of Dr. P. OÖSTERBROEK of the Instituut voor Taxonomische Zoölogie, Amsterdam. As a result of the examination, this species was proven to differ from all other described species. Furthermore, I got an undescribed species of the *Loxocera* from Sri Lanka in the survey of "Zoo-geographical studies on the medically important Diptera in Southwest Asia" in 1987. In the present paper, I describe and illustrate these two species as new to science.

### *Loxocera chinensis* n. sp.

(Figs. 1–4)

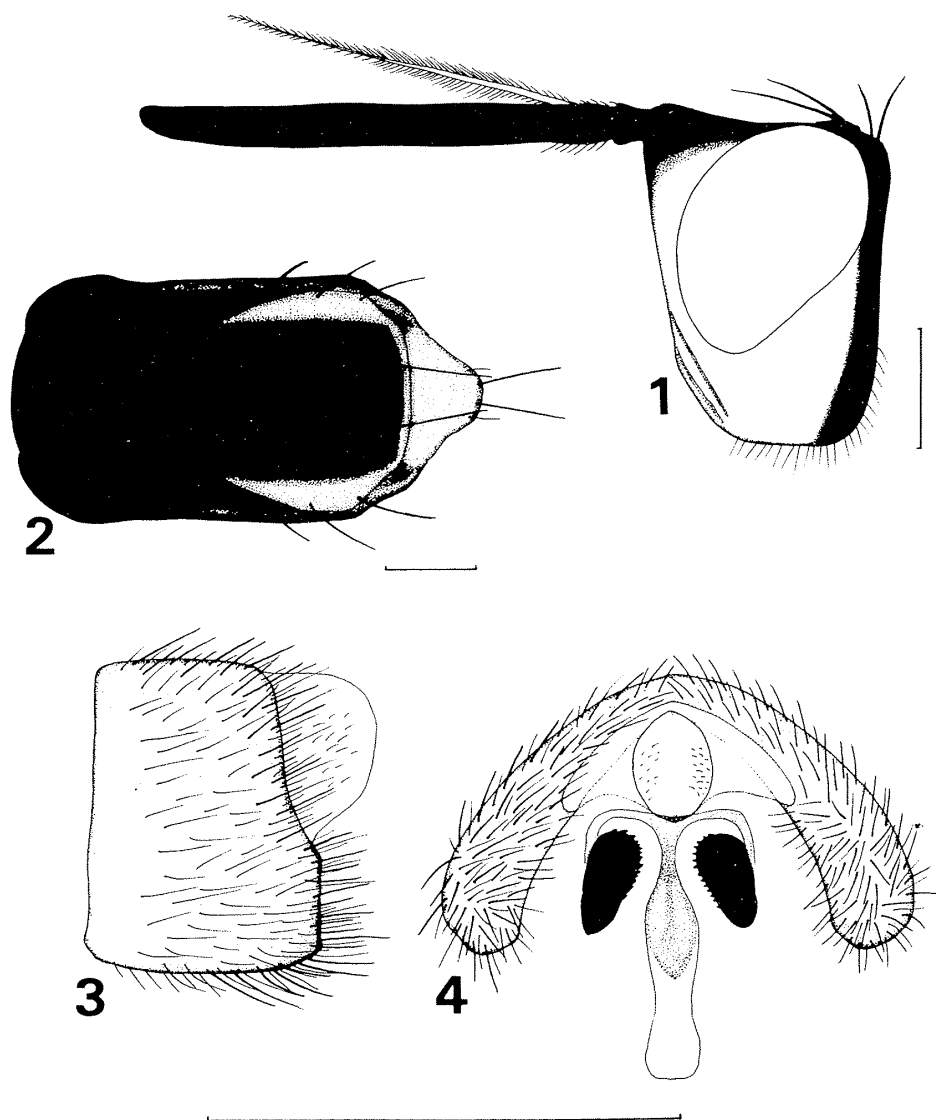
♂ ♀. Head inverted trapezoid-shaped in profile (Fig. 1); eyes reddish

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brown; frons glossy black; ocellar triangle large; face yellow in lower half and dark brown in upper half; facial orbit and gena yellow; occiput glossy black; 1st and 2nd antennal segments black, 3rd segment about 11 times as long as 2nd (Fig. 1); arista yellow to light brown, short-haired and shorter than 3rd antennal segment; palpi dark brown; proboscis brown to dark brown; 1 *oc*, 1 *vti*, 1 *vte*; *or* and *pvt* absent.

Thorax: glossy; mesonotum black with brownish stripes in posterolateral parts (Fig. 2); humeral callus and propleuron black; mesopleuron dark brown to black, clothed with long hairs at lower part; sternopleuron, pteropleuron, hypopleuron and scutellum light brown; metapleuron and metanotum black, partly



Figs. 1-4. *Loxocera chinensis* n. sp. — 1, Head, lateral view; 2, thorax, dorsal view; 3, male genitalia, lateral view; 4, ditto, posterior view. Scales: 0.5 mm.

clothed with minute hairs; 1 *n*, 1 *sa*, 1 *pa*, 1 *dc*, 1 apical *sc*; 1 subapical *sc* (short); *h* absent. Wings: strongly tinged with brown; veins dark brown;  $M_{1+2}$  curved; halteres yellow. Legs: coxae, femora yellow to light brown; hind femur with a ventral hair mat in apical part.

Abdomen about 1.7 times as long as thorax; tergites black and shiny, clothed with minute hairs; 2nd sternite longitudinally elongate oval, 3rd to 6th sternites square-shaped without angles; male epandrium squarish in profile (Fig. 3); male aedeagus pigmented with brown and filmy in apical part; male parameres strongly pigmented (Fig. 4); female ovipositor compressed laterally.

Body length: ♂ ♀, 9 mm; wing length, 6.0 mm.

Holotype: ♂, 9 km S. Kunming (2,200–2,300 m), 1 km S. Bamboo Temple, Yunnan, China, 11 Sep. 1985 (preserved in Zoölogisch Museum, Amsterdam). Paratypes: 4 ♀, same data as holotype.

*Distribution.* China.

*Remarks.* This species is related to *L. albiseta* (SCHRANK), but can be distinguished from it in having blackish mesonotum and frons, and wings strongly tinged with brown. This new species also resembles to *L. aristata* (PANZER) in general appearance, but is easily distinguishable from it in the presence of *dc*, the absence of *pvt* and by brownish color of wings.

### *Loxocera insolita* n. sp.

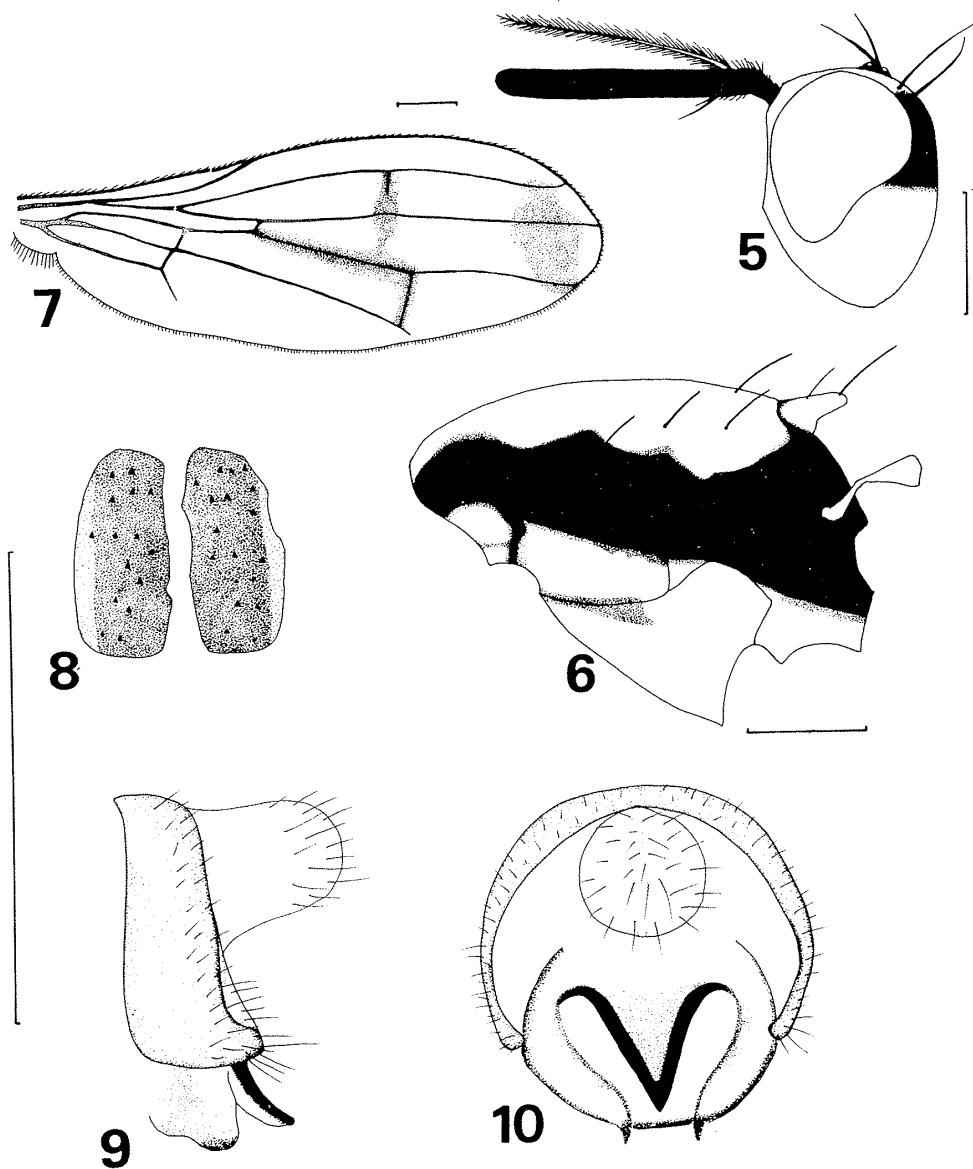
(Figs. 5–10)

♂. Head: sub-rounded in profile (Fig. 5); eyes dark brown; face yellow except black ocellar triangle; face, facial orbit and gena yellow; occiput yellow, with a pair of triangular-shaped dark spots just behind the eyes (Fig. 5); 1st antennal segment dark brown, 2nd segment brown, 3rd segment black and about 6 times as long as 2nd one (Fig. 5); arista yellow, short-haired and same length as 3rd antennal segment; palpi dark brown; 1 *oc*, 1 *vti*, 1 *vte*; *or* and *pvt* absent.

Thorax: mesonotum yellow, clothed with minute hairs; humeral callus and notopleuron black; propleuron, sternopleuron and lower half of mesopleuron yellow; upper half of mesopleuron, pteropleuron, metapleuron and upper half of hypopleuron glossy black (Fig. 6); scutellum yellow; metanotum brown; 1 *n*, 1 *sa*, 1 *pa*, 1 *dc*, 1 apical *sc*, 1 basal *sc*; *h* absent.

Wings: hyaline, and with 2 dark areas located along veins in median part and in apical part (Fig. 7); veins dark brown; vein  $R_{2+3}$  with an odd vein which is vertically running out beneath at near half (Fig. 7); vein  $M_{1+2}$  not strongly curved; halteres white. Legs: entirely yellow; middle tibia with an apical seta; hind femur without a ventral hair mat.

Abdomen: tergites dark brown and shining, clothed with minute hairs; 2th to 5th sternites longitudinally elongate oval and light brown; 6th sternite split,



Figs. 5–10. *Loxocera insolita* n. sp. — 5, Head, lateral view (left); 6, thorax, lateral view (left); 7, wing; 8, 6th abdominal sternite; 9, male genitalia, lateral view (left); 10, ditto, posterior view. Scales: 0.5 mm.

strongly pigmented and sparsely with short spines (Fig. 8); epandrium narrow in profile (Fig. 9); aedeagus inverted triangular-shaped and marginally pigmented; cerci large (Fig. 10).

Body length: ♂, 5.6 mm; wing length, 4.6 mm.

Holotype: ♂, Mt. Pidulutagala, Nuwara Elia, Sri Lanka, 25 Sep. 1987, M. IWASA (preserved in Obihiro University of Agriculture and Veterinary Medicine, Hokkaido).

*Distribution.* Sri Lanka.

*Remarks.* This species is a unique species in the genus *Loxocera* in having an odd vein which is vertically running out beneath from near half of vein  $R_{2+3}$  in wing. This species superficially resembles to *L. burmanica* FREY and *L. kambaitiensis* FREY, but is easily distinguishable from them by having odd veins mentioned above and by different pattern of dark spots in wings.

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